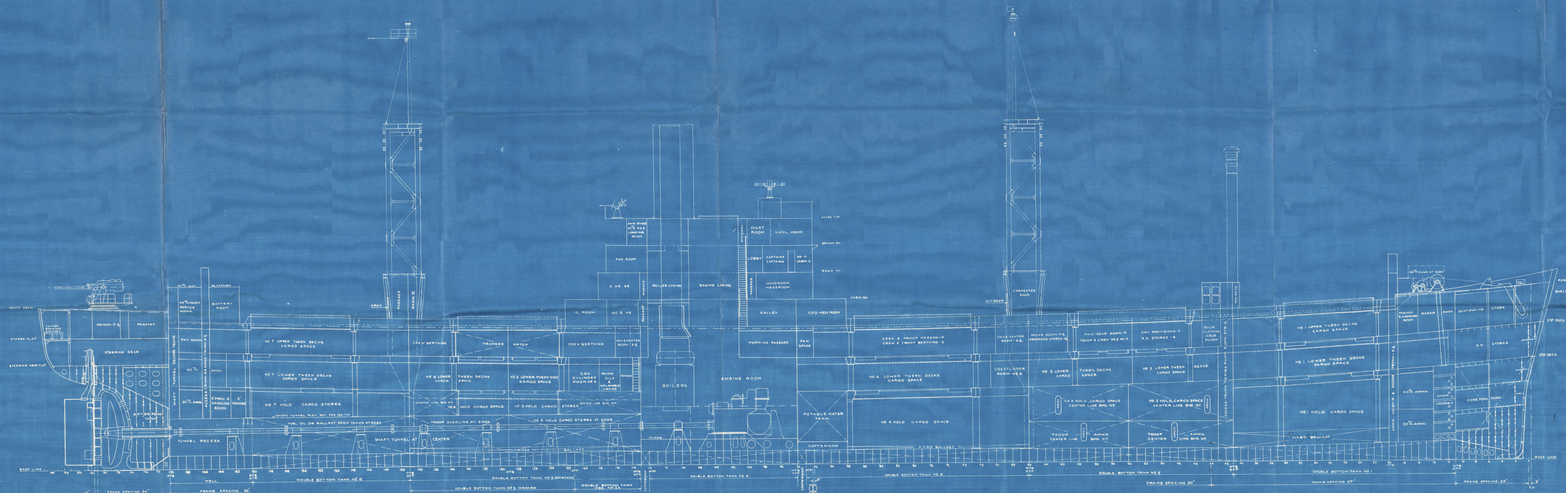
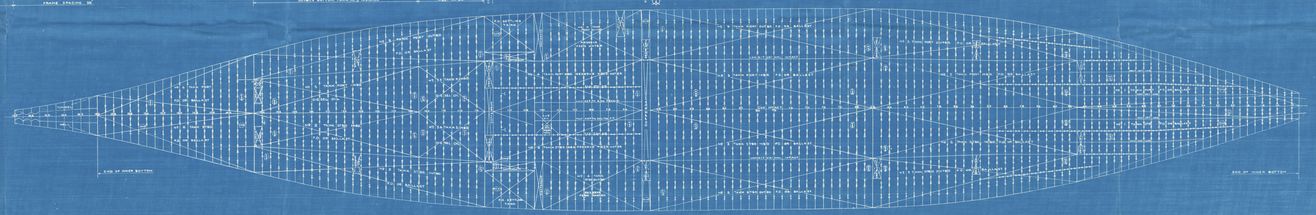
KA 65

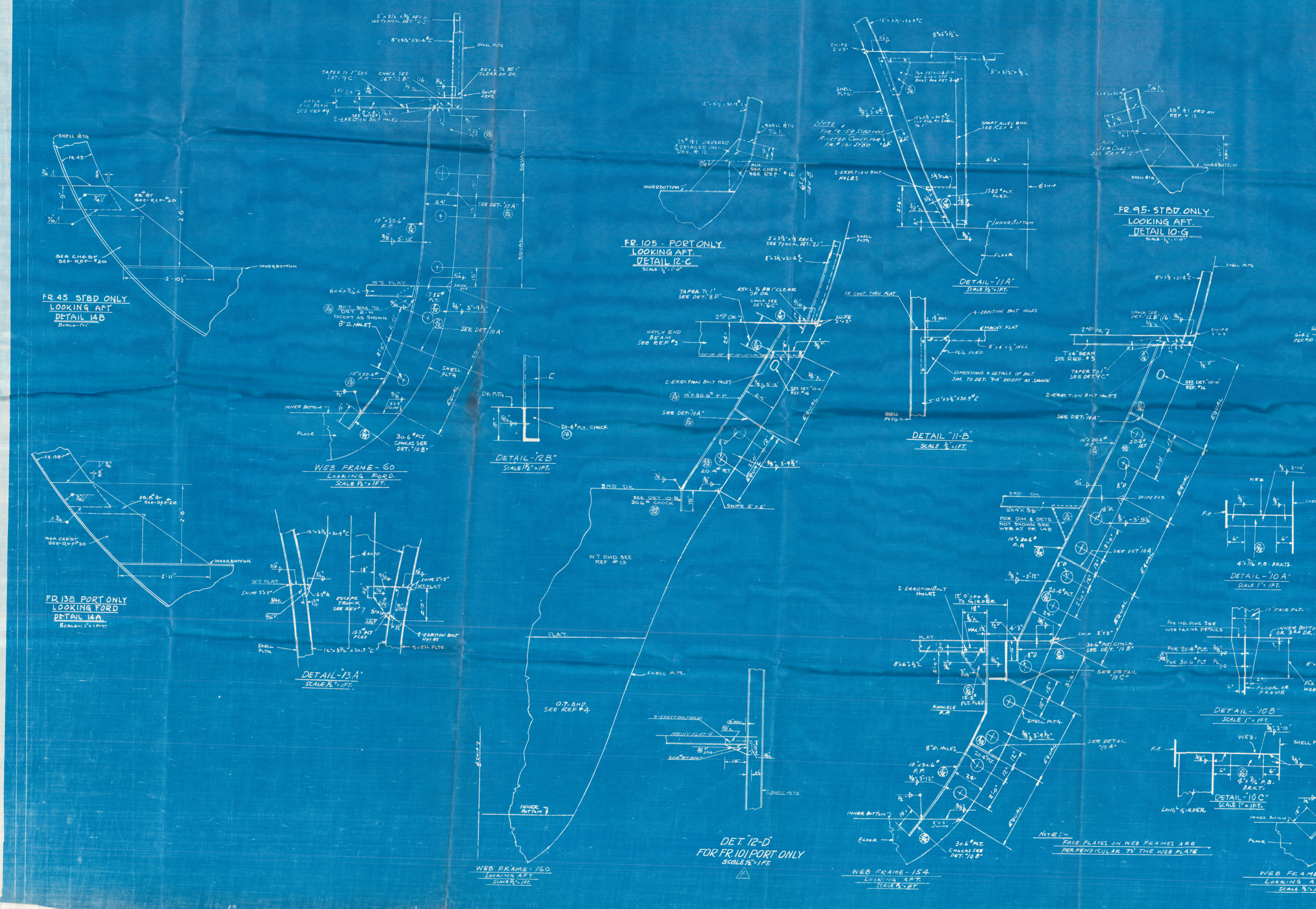




NOTES

ITEM	QUANTITY	UNIT	U.S. DATUM	APPD.	DATE
1	ADDED BOTTOM PLATING AT AFTER END OF ENGINE ROOM AS SHOWN ON PLAN				
2	ADDED BOTTOM PLATING AT FORWARD END OF ENGINE ROOM AS SHOWN ON PLAN				

1	1/2		1	3/4	
1	1/4		1	1/2	
1			1	1/4	
1	3/4		1		


5" x 3½" x ⅜" REV ∠ SEE TYPICAL DET. "2-J"
8" x 3½" x 21.4# ⊏
SHELL PLTG
TAPER TO 1" SEE DET-"9C"
CHOCK SEE DET-"12B"
16
REV ∠ TO BE 1" CLEAR OF DK
SNIPE ∠2x2
3RD DK
HATCH END BEAM SEE REF #9
8" x 4" x 7/16" ∠ SEE NOTE #1
2-ERECTION BOLT HOLES
7.85# PLT.
EQUAL
24"
15"
SEE DET-"10A"
10" x 30.6# F.P.
⅜ 3"-12"
W.T. FLAT
8x4x7/16 ∠
SNIPE 2x2
BKT SIM. TO DET 2-H EXCEPT AS SHOWN.
8" D. HOLES
⅜ 3"-9½"
SEE DET. 10A"
2'-0"
SHELL PLTG
INNER BOTTOM
FLOOR
2x2 SNIPE
30.6# PLT CHOCKS SEE DET. "10 B"
SHELL PLTG
FR.45
7/16
5/8
9"
28# PLT SEE REF #20
2'6"
SEA CHEST SEE REF #20
2'-10½"
INNERBOTTOM
C
DK PLTG
8"
5/16
20.4# PLT. CHOCK
16
FR.138
26.8# PLT SEE REF #20
SEA CHEST SEE REF #20
2'-11"
INNERBOTTOM.
12" x 3½" x 30.9# ⊏
℄ SHIP
18"
W.T. FLAT
SNIPE 2"x2"
15.3# PLT
ESCAPE TRUNK SEE REF #7
2'-0"
15.3# PLT FLG'D
2-ERECTION BOLT HOLES
SHELL PLTG.
SHELL PLTG
12" x 3½" x 30.9 ⊏
12" x 3½" x 30.9# ⊏
SHELL PLTG
7/16
25# PLT. ORDERED DETAILED ON REF #12
AUX. SEA CHEST SEE REF. #12
INNERBOTTOM
6'-1" ABV B
12" x 3½" x 30.9# ⊏
8" x 6" x ½" ∠
SNIPE 2"x2"
5" x 3½" x ⅜" ∠
FOR DETAILS & DIM NOT GIVEN SEE BRKT. FOR DET. 4-E"
SHELL PLTG.
⅜ 3'-10½"
12 x 3½ x 30.9# ⊏ CUT FLG AT SHELL TO 1"
NOTE: FOR FR 159 STBD ONLY RIVETED CONST. FOR FR. # 161 STBD "4A"
SHAFT ALLEY BHD. SEE REF #3
4'-6"
2-ERECTION BOLT HOLES
3½" FLG
17.85# PLT. FLG'D.
℄ SHIP
2'-6"
INNER BOTTOM
FLOOR
12" x 3½" x 30.9# ⊏
25# PLT. ORD ON REF #12
AUX SEA CHEST SEE REF #12
INNERBOTTOM
SHELL PLTG
6'-1" ABV B
5" x 3½" x ⅜" REV. ∠ SEE TYPICAL DET-"2J"
SHELL PLTG
8" x 3½" x 21.4# ⊏
TAPER TO 1" SEE DET-"8D"
REV. ∠ TO BE 1" CLEAR OF DK
CHOCK SEE DET-"6C"
SNIPE 2"x2"
2ND DK
HATCH END BEAM SEE REF #3
24"
2-ERECTION BOLT HOLES
⅜ 3-12"
SEE DET. "10-H" REF. #16
10" x 30.6# F.P.
SEE DET-"10A"
EQUAL
8"D
12"
2'-0"
20.4# PLT.
⅜ 3'-9½"
3RD DK
SEE DET 10-B 30.6# CHOCK
15"
SNIPE 2"x2"
W.T. BHD. SEE REF #13
FLAT.
SHELL PLTG.
O.T. BHD. SEE REF #4
℄ SHIP
INNER BOTTOM
3-ERECT. BOLT HOLES
1½" MAX.
MACH'Y FLAT
20.4# PLT. BRKT
16"
SHELL PLTG.
F
FR. CONT. THRU FLAT
1½" MAX.
4-ERECTION BOLT HOLES
MACH'Y. FLAT
8" x 4" x ½" INV. ∠
FLG. FOR'D.
DIMENSIONS & DETAILS OF BKT. SIM. TO DET. "7-A" EXCEPT AS SHOWN.
12" x 3½" x 30.9# ⊏
SHELL PLTG.
SHELL PLTG
8" x 3½" x 21.4# ⊏
CHOCK SEE DET-"12 B"
SNIPE 2" x 2"
2ND DK
7" x 4" BEAM SEE REF. #3
TAPER TO 1" SEE DET. "9C"
SEE DET. "10-H" REF. #16
2-ERECTION BOLT HOLES
SEE DET. "10A"
10" x 30.6# F.P.
20.4# PLT.
2'-0"
8"D
EQUAL
3RD DK
SNIPE 2x2
6x4x⅜"
FOR DIM. & DETS. NOT SHOWN SEE WEB AT FR 148
8"D.
⅜" -3'-9½"
10" x 30.6# F.P.
SEE DET "10A"
⅜ -3'-12"
20.4# PLT.
24"
2-ERECTION BOLT HOLES
12'-0" OFF ℄ TO GIRDER
18"
MAX. 1½"
4'-3"
FLAT.
8" x 6" x ½" ∠
SNIP 2" x 2"
30.6# PLT. CHOCK SEE DET. "10 B"
SEE DETAIL "10 C"
15.3# PLT. FLG'D
KNUCKLE F.P.
SHELL PLTG.
⅜" 3'-9½"
SEE DETAIL "10 A"
8" D. HOLES
10" x 30.6# F.P.
⅜" 3'-12"
INNER BOTTOM
FLOOR
2" x 2" SNIPE
30.6# PLT. CHOCKS SEE DET. "10 B"
⅜" 3-10"
WEB
F.P.
SHELL
6"
6"
4" x 7/16" F.B. BRKTS.
10" FACE PLT.
FOR WELDING SEE WEB FRAME DETAILS
INNER BOTTOM OR 3RD DK.
FOR 20.4# PLT. ⅜"
FOR 30.6# PLT ½"
2"
FLOOR OR FRAME
⅜" 3-10"
WEB.
SHELL
F.P.
6"
6"
4" x 7/16" F.B. BRKT.
LONG'L GIRDER
INNER BOTTOM
FLOOR
13
12
11

FR 45 STBD ONLY
LOOKING AFT
DETAIL 14B
SCALE 1"=1'

WEB FRAME - 60
LOOKING FORD.
SCALE ½" = 1FT.

DETAIL - "12B"
SCALE 1½" = 1FT.

FR 138 PORT ONLY
LOOKING FORD
DETAIL 14A
SCALE 1" = 1FT.

DETAIL - "13A"
SCALE ½" = 1FT.

FR. 105 - PORT ONLY
LOOKING AFT.
DETAIL 12-C
SCALE ½" = 1'-0"

WEB FRAME - 160
LOOKING AFT
SCALE ½" = 1FT.

DET. "12-D"
FOR FR. 101 PORT ONLY
SCALE ½" = 1FT.

DETAIL - "11A"
SCALE ½" = 1FT.

DETAIL "11-B"
SCALE ½" = 1FT.

FR. 95 - STBD. ONLY
LOOKING AFT.
DETAIL 10-G
SCALE ½" = 1'-0"

WEB FRAME - 154
LOOKING AFT.
SCALE ½" = 1FT

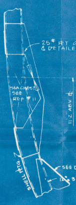
DETAIL - "10 A"
SCALE 1" = 1FT.

DETAIL - "10 B"
SCALE 1" = 1FT.

DETAIL - "10 C"
SCALE 1" = 1FT.

WEB FRAME
LOOKING A
SCALE ½" =

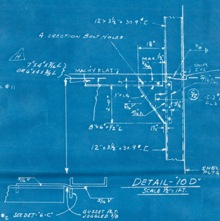
NOTE: -
FACE PLATES ON WEB FRAMES ARE PERPENDICULAR TO THE WEB PLATE


25# PLT. ORDERED & DETAILED ON REF #11
SEA CHEST SEE REF. #11
11'-2" ABV ℄
SHELL PLTG.
SEE DET. 2-G
12"×3½"×30.9#⊏

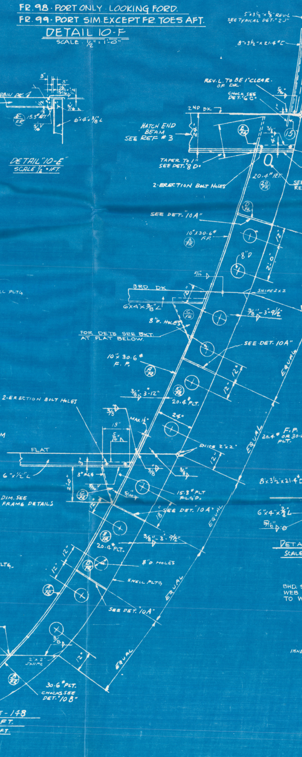
FR. 98 · PORT ONLY · LOOKING FORD.
FR. 99 · PORT SIM. EXCEPT FR. TOES AFT.

DETAIL 10-F

SCALE · ½" = 1'-0"

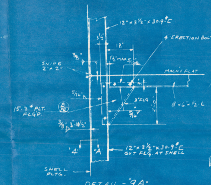

12"×3½"×30.9#⊏
4-ERECTION BOLT HOLES
18"
MAX. 1½"
7"×4"×7/16L OR 6"×4×3/8L
H
MACH'Y FLAT
SNIPE 2"×2"
20.4# PLT. CHOCK SEE DET-"6-C"
3"FLG.
2'-0"
15.3# PLT. FLG'D.
8"×6"×½"L
12"×3½"×30.9#⊏
SHELL PLTG.
SEE DET-"6-C"
GUSSET PLT. JOGGLED 3/8

DETAIL-"10 D"
SCALE ½"=1FT.


5"×3½"×3/8" REV-L SEE TYPICAL DET-"2J"
SHELL PLTG
8"×3½"×21.4#⊏
REV. L. TO BE 1" CLEAR OF DK.
CHOCK SEE DET-"6C"
2ND DK
SNIPE 2"×2"
HATCH END BEAM SEE REF #3
15
TAPER TO 1" SEE DET-"8D"
2-ERECTION BOLT HOLES
20.4# PLT.
SEE DET. "10-H" REF. #16
SEE DET-"10A"
10"×30.6# F.P.
8"D
EQUAL
3RD. DK
6"×4"×3/8"L
SNIPE 2×2
3/8"-3'-9½"
8"D. HOLES
FOR DETS SEE BKT. AT FLAT BELOW.
SEE DET. 10A"
10"×30.6# F.P.
3/8-3'-12"
20.4# PLT.
24"
2-ERECTION BOLT HOLES
FLAT
F.P. 20.4# OR 30.6# PLT.
SNIPE 2"×2"
6"×½"L
3"FLG
15.3# PLT FLG'D.
DIM. SEE FRAME DETAILS
SEE DET. "10A"
8"D. HOLES
SHELL PLTG
SEE DET. "10A"
2"×2" SNIPE
30.6# PLT. CHOCKS SEE DET. "10B"
15.3# PLT.
6"×4"×3/8L

DETAIL "10-E"
SCALE ½"=1FT.

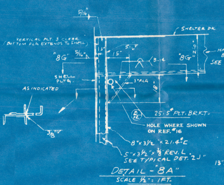
F-148
FT.
FT.


12"×3½"×30.9#⊏
4-ERECTION BOLT HOLE.
18"
1½" MAX
SNIPE 2"×2"
MACH'Y FLAT
15.3# PLT. FLG'D.
3"FLG
2'-0"
8×6"×½-L
3/8" 3'-10½"
"4"
"A"
12"×3½"×30.9#⊏ CUT FLG. AT SHELL
SHELL PLTG.

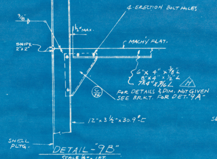
DETAIL-"9A"
SCALE ½"=1FT.

SHELL PLTG
BEAM FLG

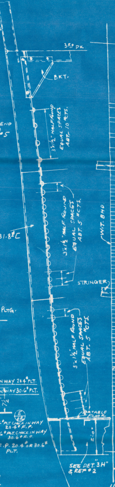
SECT. "8 G"


SHELTER DK
VERTICAL PLT. 3 CLEAR (BOTTOM FLG EXTENDS TO SHELL)
"8G"
15"
B-14
HATCH END BEAM SEE REF #5
SHELL PLTG.
3"FLG
AS INDICATED
25.5# PLT. BRKT.
HOLE WHERE SHOWN ON REF. #16
8"×3½"×21.4#⊏
5"×3½"×3/8" REV. L. SEE TYPICAL DET. 2J"
13"×4"×31.8#⊏

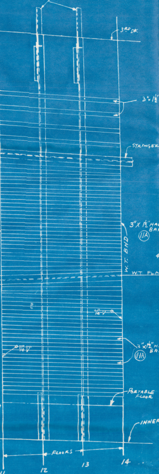
DETAIL-"8A"
SCALE ½"=1FT.


4-ERECTION BOLT HOLES
½" MAX.
SNIPE 2"×2"
MACH'Y FLAT.
6"×4"×3/8"L
8"×4"×½"L
7"×4"×7/16L
H
FOR DETAILS & DIM. NOT GIVEN SEE BRKT. FOR DET. "9A"
12"×3½"×30.9#⊏
SHELL PLTG.

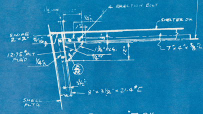
DETAIL-"9B"
SCALE ½"=1FT.


3RD DK
BKT.
3"×1½" HALF ROUND EQUAL SPACES ABT. 10"CTS.
13"×4"×31.8#⊏
3"×1½" HALF ROUND EQUAL SPACES ABT. 5"CTS.
STRINGER
SEE DET. "3H" & REF #2
11
FORD.

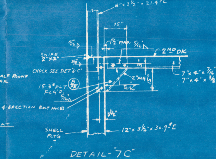
SECT. AT FR. 13-SHOWN.
" " 12-SIMILAR
LOOKING AFT.


8"×3½"×21.4#⊏
3RD DK
3"×1½" HALF ROUND BAR
STRINGER
W.T. BHD.
3"×1½" HALF ROUND BAR
11A
W.T. FLAT
PORTABLE FLOOR
INNER BOTTOM
FLOORS
12
13
14

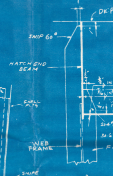
ELEV. LOOKING OUTB'D
STB'D. SIDE SHOWN - PORT. OPP. HAND
SCALE ½"=1FT.


4-ERECTION BOLT
SHELTER DK
SNIPE 2"×2"
12.75# PLT FLG'D
1¾" FLG.
7"×4"×3/8"L
8"×3½"×21.4#⊏
SHELL PLTG

DETAIL-"7B"
SCALE ½"=1FT.


8"×3½"×21.4#⊏
15"
1½" MAX.
2ND DK
SNIPE 2"×2"
CHOCK SEE DET. 6-C"
15.3# PLT. FLG'D.
2"FLG
7"×4"×7/16"
7"×4"×3/8"
4-ERECTION BOLT HOLES
SHELL PLTG
12"×3½"×30.9#⊏

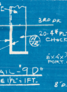
DETAIL-"7C"
SCALE ½"=1FT.


DK PLTG.
SNIP 60°
HATCH END BEAM
3/8" INWAY 20.4# PLT.
7/16" INWAY 30.6# PLT.
20.4# PLT CHOCK INWAY 20.4# F.P.
30.6# PLT. CHOCK INWAY 30.6# F.P.
WEB FRAME
F.P. 20.4# OR 30.6# PLT.

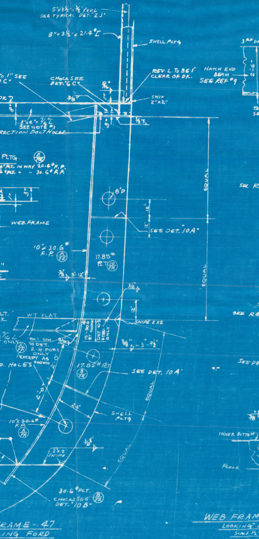
DETAIL-"8D"
SCALE 1"=1FT.

DK. PLTG.
20.4# PLT. IN WAY 20.4# F.P.
30.6# PLT. " 30.6# F.P.
WEB FRAME

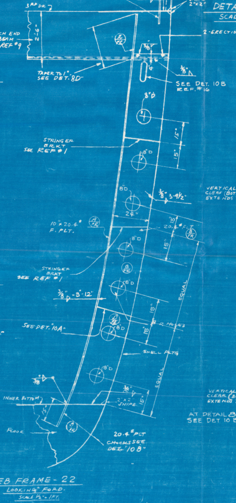
DETAIL-"9C"
SCALE 1½"=1FT.


8"×3½"×21.4#⊏
3RD DK
6"×4"×3/8"L
20.4# PLT. CHOCK
5/16"

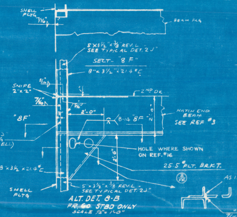
DETAIL-"9D"
SCALE 1½"=1FT.


5"×3½"×3/8" REV.L SEE TYPICAL DET. "2J"
8"×3½"×21.4#⊏
SHELL PLTG
TAPER TO 1" SEE DET-"9C"
CHOCK SEE DET-"6C"
REV. L. TO BE 1" CLEAR OF DK.
3RD DK
SNIP 2"×2"
6"×4"×7/16"L SEE NOTE #1
2-ERECTION BOLT HOLES
SEE DET. "10A"
EQUAL
10"×30.6 F.P.
17.85# PLT.
W.T. FLAT
SNIPE 2×2
8"×4"×7/16L PORT ONLY
8"D. HOLES
SEE DET. 10A
BHD. STBD ONLY-OMIT WEB FRAME I.B. TO W.T. FLAT.
10"×30.6# F.P.
INNER BOTTOM
2"×2" SNIPE
FLOOR
30.6# PLT. CHOCKS SEE DET. "10B"

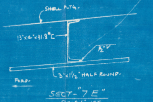
WEB FRAME - 47
LOOKING FORD
SCALE ½"=1FT.


CHOCK SEE DET-"6C"
SNIPE 2"×2"
3RD DK
HATCH END BEAM SEE REF #9
2-ERECTION BOLT HOLES
TAPER TO 1" SEE DET. 8D"
SEE DET. 10B REF. #16
8"D
STRINGER BRKT SEE REF #1
10"×20.4# F. PLT.
SEE DET. 10A
INNER BOTTOM
2"×2" SNIPE
FLOOR
20.4# PLT CHOCKS SEE DET. "10B"
EQUAL

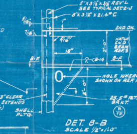
WEB FRAME - 22
LOOKING FORD.
SCALE ½"=1FT.


SHELL PLTG
BEAM FLG
5"×3½"×3/8" REV. L SEE TYPICAL DET. 2J"
SECT- "8 F"
8"×3½"×21.4#⊏
SNIPE 2"×2"
2ND DK
"8F"
2'-0"
B-14 8F
HATCH END BEAM SEE REF #3
VERTICAL PLT. 3" CLEAR (BOTT. FLG EXTENDS TO SHELL)
HOLE WHERE SHOWN ON REF. #16
25.5# PLT. BRKT.
AS INDICATED
SHELL PLTG
5"×3½"×3/8" REV.L SEE TYPICAL DET. 2J"

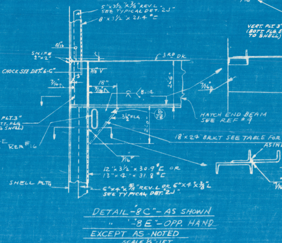
ALT. DET. 8-B
FR. 60 STBD ONLY
SCALE ½"=1'-0"


SHELL PLTG.
13"×4"×31.8#⊏
½"V
3"×1½" HALF ROUND.
FORD.

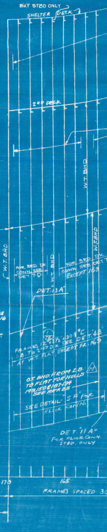
SECT- "7 E"
SCALE 1"=1FT.


5"×3½"×3/8" REV'L SEE TYPICAL DET. 2-J
8"×3½"×21.4#⊏
2ND DK.
HATCH END BEAM REF. 3
18"
8-F
B-14
HOLE WHERE SHOWN ON REF. 16
25.5# PLT. BRKT.
VERT. PLT. 3" CLEAR (BOTT. FLG. EXTENDS TO SHELL)
SHELL PLTG.

DET. 8-B
SCALE ½"=1'-0"


5"×3½"×3/8" REV. L. SEE TYPICAL DET. 2J"
8"×3½"×21.4#⊏
SNIPE 2"×2"
CHOCK SEE DET. 6-C"
3RD DK
18"
B-14
BEAM FLG.
VERTICAL PLT. 3" CLEAR (BOTT. FLG EXTENDS TO SHELL)
AT DETAIL 8-E SEE DET 10 B REF #16
HATCH END BEAM SEE REF #9
18"×24" BRKT SEE TABLE FOR BRKTS PANEL #6
AS INDICATED
12"×3½"×30.9#⊏ OR 13"×4"×31.8#⊏
SHELL PLTG
6"×4"×5/8" REV. L OR 6"×4"×3/8"L SEE TYPICAL DET. "2J"

DETAIL-"8C"- AS SHOWN
" "8E"- OPP. HAND
EXCEPT AS NOTED
SCALE ½"=1FT.


BKT STBD ONLY
SHELTER DECK
2ND DECK
W.T. BHD.
FOR 3RD DK CONN SEE DET. 7-D
FOR 3RD DK CONN SEE DET. 7 EXCEPT 163
DET. 13A
FRAMES 12"×3½"×30.9#⊏ I.B. TO 2ND DK SEE DET. 4B AT W.T. FLAT, EXCEPT FR. 169
O.T. BHD. FROM I.B. TO FLAT FOR HULLS 149, 150 & 187-194 SEE REF 25
SEE DETAIL "5F" FOR FLOOR CONN.
DET. "11A" FOR FLOOR CONN. STBD. ONLY
A.P.
170
165
FRAMES SPACED 24"
FRAMES SPACED 30
FOR COUNTER & PEAK FRAMES SEE REF. #8

10

9

8

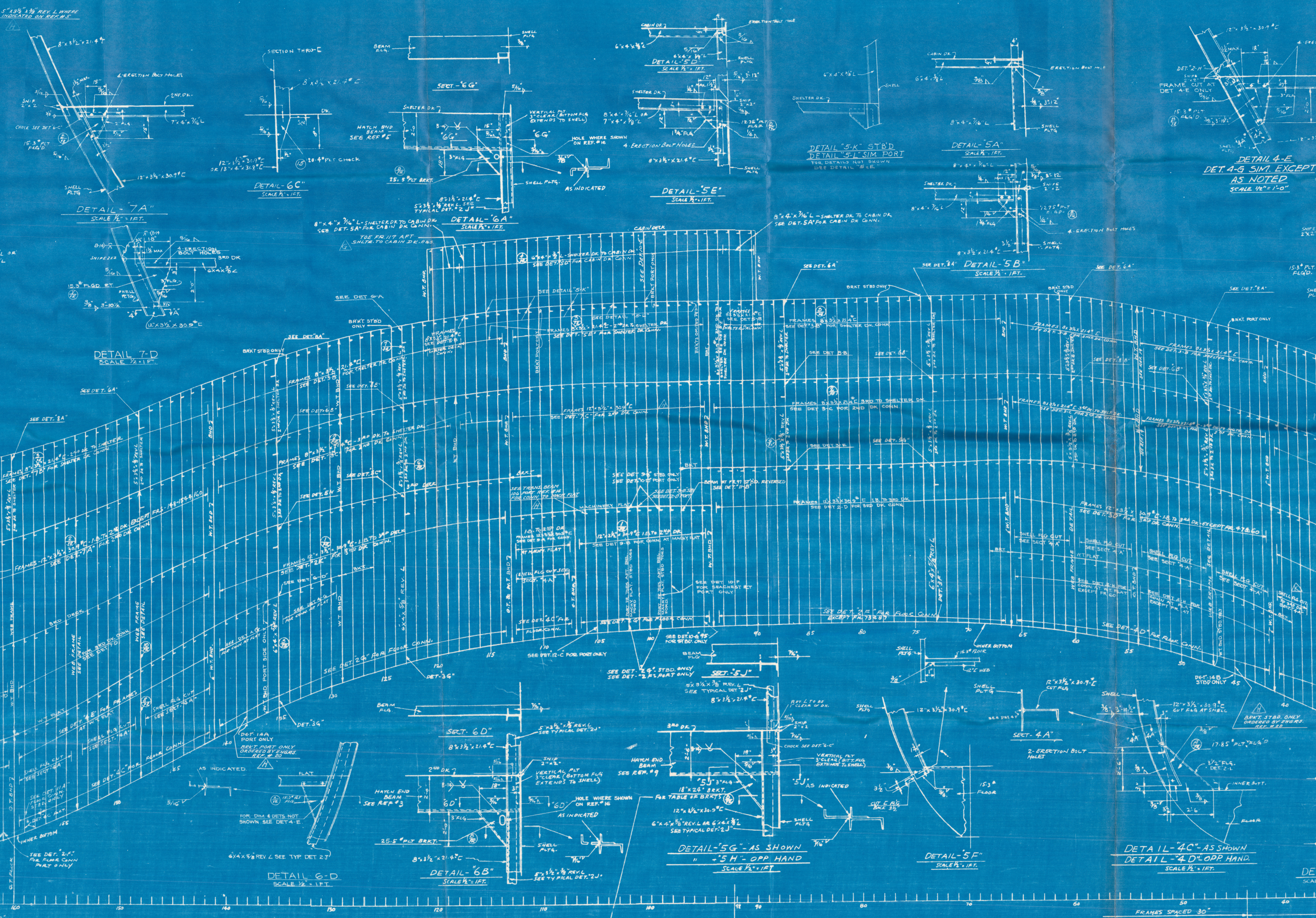
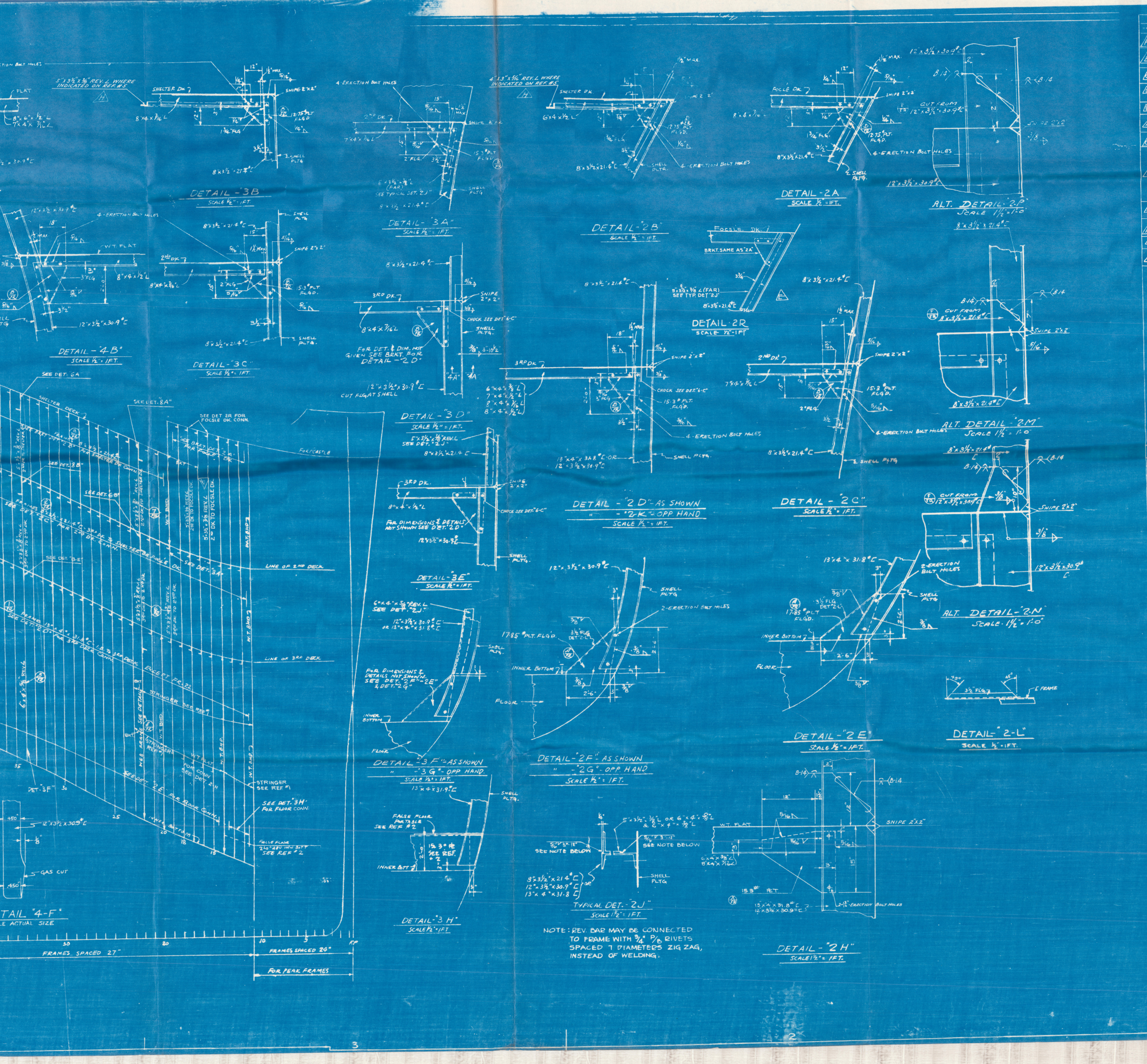

5"x3½"x⅜" REV. L WHERE INDICATED ON REF.#5
DETAIL-"7A"
SCALE ½"=1FT.
DETAIL 7-D
SCALE ½"=1FT.
DETAIL-6C"
SCALE ½"=1FT.
SECT.-"6G"
DETAIL-"6A"
SCALE ½"=1FT.
DETAIL-"5D"
SCALE ½"=1FT.
DETAIL-"5E"
SCALE ½"=1FT.
DETAIL "5-K" STB'D
DETAIL "5-L" SIM. PORT
FOR DETAILS NOT SHOWN SEE DETAIL "5-E"
DETAIL-"5A"
SCALE ½"=1FT.
DETAIL-"5B"
SCALE ½"=1FT.
DETAIL 4-E
DET. 4-G SIM. EXCEPT AS NOTED
SCALE ½"=1'-0"
CABIN DECK
SHELTER DK.
MACHINERY FLAT
3RD DECK
2ND DK.
INNER BOTTOM
W.T. BHD.
FRAMES 12"x3½"x30.9# C
SECT. "5J"
SECT. 6D"
SECT.-"4A"
DETAIL 6-D
SCALE ½"=1FT.
DETAIL-"6B"
SCALE ½"=1FT.
DETAIL-"5G"-AS SHOWN
" -"5H"- OPP. HAND
SCALE ½"=1FT
DETAIL-"5F"
SCALE ½"=1FT.
DETAIL-"4C"-AS SHOWN
DETAIL-"4D"-OPP. HAND.
SCALE ½"=1FT.
FOR TABLE OF BRKTS
18"x24" BRKT.
12"x3½"x30.9# C
6"x4"x⅝" REV. L OR 6"x4"x⅜" L
SEE TYPICAL DET. "2J"
SHELL PLTG
FRAMES SPACED 30"
160
150
140
130
120
110
100
92
90
80
70
60
50
40
7
6
5
4

TABLE FOR BRKT PLT'S.

3RD DECK	FR 34	23.0# PLT.
3RD DECK	FRS 73	25.5# PLT.
3RD DECK	FR 123	25.5# PLT.
3RD DECK	FR 135	25.5# PLT.


DETAIL -3B
SCALE ½" = 1 FT.
DETAIL "3A"
SCALE ½" = 1 FT.
DETAIL -2B
SCALE ½" = 1 FT.
DETAIL -2A
SCALE ½" = 1 FT.
ALT. DETAIL "2P"
SCALE 1½" = 1'-0"
DETAIL "4B"
SCALE ½" = 1 FT.
DETAIL "3C"
SCALE ½" = 1 FT.
DETAIL 2R
SCALE ½" = 1 FT.
ALT. DETAIL "2M"
SCALE 1½" = 1'-0"
DETAIL "3D"
SCALE ½" = 1 FT.
DETAIL "2D" AS SHOWN
" "2K" OPP HAND
SCALE ½" = 1 FT.
DETAIL "2C"
SCALE ½" = 1 FT.
DETAIL "3E"
SCALE ½" = 1 FT.
ALT. DETAIL "2N"
SCALE 1½" = 1'-0"
DETAIL "2E"
SCALE ½" = 1 FT.
DETAIL "2-L"
SCALE ½" = 1 FT.
DETAIL "3F" AS SHOWN
" "3G" OPP HAND
SCALE ½" = 1 FT.
DETAIL "2F" AS SHOWN
" "2G" OPP HAND
SCALE ½" = 1 FT.
TYPICAL DET. "2J"
SCALE 1½" = 1 FT.
DETAIL "3H"
SCALE ½" = 1 FT.
DETAIL "2H"
SCALE 1½" = 1 FT.
TAIL "4-F"
LE ACTUAL SIZE
FRAMES SPACED 27"
FRAMES SPACED 24"
FOR PEAK FRAMES
SHELTER DK
2ND DK
3RD DK
FOCSLE DK
W.T. FLAT
SHELL PLTG
SNIPE 2"x2"
4-ERECTION BOLT HOLES
2-ERECTION BOLT HOLES
INNER BOTTOM
FLOOR
LINE OF 2ND DECK
LINE OF 3RD DECK
STRINGER SEE REF #1
SEE DET. "3H" FOR FLOOR CONN.
FALSE FLOOR SEE REF #2
GAS CUT
FOR DIMENSIONS & DETAILS NOT SHOWN SEE DET. "2D"
FOR DET. & DIM. NOT GIVEN SEE BRKT FOR DETAIL "2D"
CUT FLG AT SHELL
SEE NOTE BELOW
30
20
10
5
FP
3
2

NOTE: REV. BAR MAY BE CONNECTED TO FRAME WITH 3/4" P/B RIVETS SPACED 7 DIAMETERS ZIG ZAG, INSTEAD OF WELDING.

MARK	PANEL NO.	ALTERATIONS	DATE	O.K	AUTH'D	APP'D	DATE
A		PLAN MODIFIED IN GENERAL			D		
B	GENERAL	PLAN ALTERED IN GENERAL: N.C. PLAN NO.S AND MATERIAL GROUP NO.S ADDED TO SUIT YARD PRACTICE	F.H.R. 2/24/44	[illegible]	2/25/4		
C	14	DETAILS 14A & 14B ADDED TO SUIT REF 20. REF 20 ADDED	CEM 3-16-44	[illegible]			
D		FRAMING BRACKETS DELETED IN WAY OF MISC. BULKHEADS ON 2ND DECK - TO SUIT REF 21 & 22 : REF 21 & 22 ADDED.	CEM 3-21-44				
E	2' 3'	DETAIL 2R ADDED FOR FRS. 15 & 17 TO SUIT REF NO. 23 : REF NO. 23 ADDED.	CEM 3-25-44	[illegible]	3/30/44		
F	12'	DET. "12-D" FRAMING BRKT. FOR FR. 101 PORT ONLY ADDED TO SUIT INSTALLATION OF MAIN OVERBOARD DISCHARGE.	4/10/44 RER		4-13-4		
G	6'	CHANNEL FR. 17 ALTERED TO TOE AFT FROM SHELTER DECK TO CABIN DECK TO SUIT REFERENCE NO. 24 & No. 10	F.H.R. 4-20-44		4-24-4		
H 9	1 — 5' 6' 9' 10'	FR. 96 MADE 12" X 3½" X 30.9# ⊏ BET. 2ND. DK. & MACHRY. FLAT. CONN. OF TRANS. BEAM UNDER MACHRY. FLAT AT FR. 106 PORT ONLY NOTED TO SEE REF. # 14 DET. 9-B & 10-D ALT. TO SUIT BEAM SIZES UNDER MACHRY. FLAT ALL TO SUIT REF. # 14. IN ACCORD WITH N.N. ALT. 1	4/25/44 R.E.W.	[illegible]	4/26/4		
	2 — 2' 3' 7'	DET. 2B, 3-B & 7-B REVISED TO SUIT REF. # 5. IN ACCORD WITH N.N. ALT. 2					
	3 — 4' 6'	NOTES ADDED AT BRKTS. IN WAY OF I.B. AT FRS. 45 & 138. ALL TO SUIT REF. # 20 IN ACCORD WITH N.N. ALT. 3					
J	8'	AT FR. 60 STBD ONLY - 18" X 24" FLG. BRKT. ALT. TO 2'-0" X 2'-6". ALTERNATE DET. 8-B ADDED - TO SUIT ENGR'S.	G.F.G. 6-27-44	6/27/44	6/27/4		
K	4'	SHELL FRAME SHOWN CUT. FRS. 38, 39, & 40, TO 3RD DECK, TO FACILITATE ERECTION & LAYOUT	F.H.R. 7-5-44	7/5/44	7/6/4		
L		PLAN MADE APPLICABLE TO ADDITIONAL CONTRACT BY ALTERING AKA, M.C. & N.C. HULL NOS	J.M.K. 8-2-4		10-13-4		
M	7'	BHD AT FR. 162 ADDED FROM I.B. TO FLAT FOR HULLS 149, 150 & 187-194. TO SUIT REF. 25. REF. 25 ADDED.	10/11/4 RER		10-13-4		

REFERENCES

NO.	TITLE	C2-S-AJ1 N.N. NO	C2-S-AJ1 N.C. NO	C2-S-AJ3 N.N. NO	C2-S-AJ3 N.C. NO
1	HOLD STRINGERS	~~178007~~	S11-4-2	179553	179553
2	TRANS. W.T. BHD. 11 & CHAIN LOCKER	~~178011~~	S11-5-8	179557	179557
3	2ND. DK. PLTG., BEAMS, & GIRDERS	~~178026~~	S11-6-4	179570	179570
4	SHAFT ALLEY BHDS	~~178023~~	S11-5-12	179404	179404
5	SHELTER, FOCLE, & POOP DK. PLTG.	~~178035~~	S11-6-7	179574	179574
6	BOW FRAMING FORD FR 11.	~~178009~~	S11-3-4	179555	179555
7	TRANS. BHD. 170 & SHAFT ALLEY ESC. TRK	~~178020~~	S11-5-13	179565	179565
8	STERN FRAMING	~~178008~~	S11-3-6	179554	179554
9	3RD DK PLTG. BEAMS & GDRS.	~~178016~~	S11-6-6	179480	179480
10	SHELTER DK. HOUSE & CABIN DK. PLTG.	~~178039~~	S11-9-3	179575	179575
11	MAIN INJECTION SEACHESTS	~~174444~~			
12	AUX. SEA CHESTS	~~174445~~			
13	MISC BHDS BEL 3RD DK.			179427	179427
14	MACHY FLAT & FDNS. 17'-3" ABV. ℄ FR 94-107	~~178031~~	S11-13-4	179585	179585
15	MISC. BHDS. BET 2ND & 3RD DKS.			179449	179449
16	PROTECTION FOR DEGAUSSING CABLES	~~179483~~		179704	179704
17	W.T. FLATS FR 14-20 15'-0" ABV ℄ & 42-66 - 12'-0" ABV ℄			179423	179423
18	W.T. & O.T. FLAT FR 129-170 - 15'-0" ABV. ℄			179426	179426
19	TRS. W.T. BHD. # 53½ ABV. 3RD DK.			179396	179396
20	SEA CHESTS IN DIESEL FIRE PUMPROOMS			179435	179435
21	MISC. BULKHEADS ON 2ND DK. FWD. FR 80			179429	179429
22	MISC. BULKHEADS ON 2ND DK AFT FR 80			179425	179425
23	40 M/M GUN FOUNDS. & AMM TRUNKS FORD.			179598	179598
24	MISCL. VENTILATION SHT. NO. 1			179662	179662
25	FOG OIL TANK FRS. 160-162				HP0128

(9)

S.S. "Beatrice"
Baltimore Rpt
8451

NOTES:

THIS DRAWING REPLACES N N DRAWING 178006
M. C. No. 1346 511-3-5ER FOR HULLS LISTED BELOW
ALL MATERIAL WAS ORDERED ON THE ORIGINAL
PLAN EXCEPT AS MODIFIED BY ALTERATION "A".

M C HULL	N C HULL	A K A HULL	CONVERSION YARD	M C HULL	N C HULL	A K A HULL	CONVERSION YARD
1405	150			1404	149		
1403	148			1402	147		
1401	146			1400	145		
1399	144			1398	143		
1397	142			1396	141		
1395	140			1394	139		
1393	138			1392	137		
1391	136			1390	135		
1389	134			1388	133		
1387	132			1386	131		
1385	130			1384	129		
1383	128			1382	127		

DESIGN No. C2-S-AJ 3

CONVERSION OF C2-S-AJ 1

UNITED STATES MARITIME COMMISSION
M. C. HULL Nos. 1382 TO 1405 1856 TO 1703 M. C. DWG. No.

NAVY DEPARTMENT
A. K. A. HULL Nos. 64 - 87 & 101-108

DESIGNED BY
NEWPORT NEWS SHIPBUILDING & DRY DOCK COMPANY
NEWPORT NEWS, VIRGINIA
HULL DEPARTMENT

SCALE 1/2" = 1 FT. DATE SCHED. DATE COMP. 2-10-44
DRAWN Philip H. Clark EXAMINED R. W. Davis
CHECKED C. W. HACKER APPROVED J. P. Comstock
CHARGEMAN DATE Feb. 11, 1944

N. N. JOB ORDER 644-V
N. N. DRAWING No. - 179552

NORTH CAROLINA SHIPBUILDING COMPANY
WILMINGTON, N. C.
BUILDERS
N. C. HULL Nos. 127 TO 150 187-194 N. C. DWG. No. 179552
CONVERSION YARD

DWG. TITLE

FRAMING DIAGRAM & DETAILS

APPROVED AS NOTED IN
M. C. LET.
M. C. FILE
BY
BY
A. B. S. LET.
U. S. COAST GUARD

LLOYD'S REGISTER OF SHIPPING
17 BATTERY PLACE
NEW YORK
N. Y.
WTd
APPROVED

PLAN
EXAMINED AND FOUND CORRECT
SUPERVISOR OF SHIPBUILDING
DATE
DATE 2-11-44
E. L. Gaughan
FOR SUPERVISOR OF SHIPBUILDING

BUREAU OF SHIPS PLAN NUMBER (BASIC)
AKA 64 - S 1103-507017

GROUP NUMBER	DESCRIPTION	FRAMES
S11-20-C	FLOORS AT INNER BOTTOM	50½ TO 62½
S11-21-C	" " " "	37½ TO 50½
S11-24-C	" " " "	146½ TO 157½
S11-26-C	" " " "	11½ TO 24½
S11-49-	WEB FRAMES INNER BOTTOM	22, 47, & 60
S11-60-A1	FRAMING BRACKETS I.B. TO 3RD DK.	62½ TO 122½
S11-60-A2	SHELL FRAMING " " " "	" " "
S11-60-B1	FRAMING BRACKETS 3RD DK. TO 2ND DK.	" " "
S11-60-B2	SHELL FRAMING " " " "	" " "
S11-60-C1	FRAMING BRACKETS 2ND DK. TO SHLTR. DK.	" " "
S11-60-C2	SHELL FRAMING " " " "	" " "
S11-60-D2	" " SHELTER DK. TO CABIN DK.	83½ TO 125
S11-61-A1	FRAMING BRACKETS I.B. TO 3RD DK.	24½ " 62½
S11-61-A2	SHELL FRAMING " " " "	" " "
S11-61-B1	FRAMING BRACKETS 3RD DK. TO 2ND DK.	" " "
S11-61-B2	SHELL FRAMING " " "	" " "
S11-62-A1	FRAMING BRACKETS I.B. TO 3RD DK.	11½ TO 24½
S11-62-B1	" " 3RD DK. TO 2ND DK.	" " "
S11-62-B2	SHELL FRAMING " " " " "	" " "
S11-63-A1	FRAMING BRACKETS I.B. TO 3RD DK.	122½ TO 140½
S11-63-A2	SHELL FRAMING " " " "	" " "
S11-63-B1	FRAMING BRACKETS 3RD DK. TO 2ND DK.	" " "
S11-63-B2	SHELL FRAMING " " "	" " "
S11-64-A1	FRAMING BRACKETS I.B. TO 3RD DK.	140½ " 157½
S11-64-A2	SHELL FRAMING " " " "	" " "
S11-64-B1	FRAMING BRACKETS 3RD DK. TO 2ND DK.	" " "
S11-64-B2	SHELL FRAMING " " " "	" " "
S11-65-A1	FRAMING BRACKETS I.B. TO 3RD DK.	157½ TO 169½
S11-65-A2	SHELL FRAMING " " " "	" " "
S11-65-B1	FRAMING BRACKETS 3RD DK. TO 2ND DK.	" " "
S11-65-B2	SHELL FRAMING " " " " "	" " "
S11-77-A	FRAMING BRACKETS 2ND DK. TO SHLTR. DK.	122½ TO 146½
S11-77-B	SHELL FRAMING " " " "	" " "
S11-78-A	FRAMING BRACKETS " " " "	146½ TO 169½
S11-78-B	SHELL FRAMING " " " "	" " "
S11-79-A	FRAMING BRACKETS " " " "	37½ TO 62½
S11-79-B	SHELL FRAMING " " " "	" " "
S11-80-A	FRAMING BRACKETS " " " "	11½ TO 37½
S11-80-B	SHELL FRAMING " " " "	" " "
S11-81-A	WEB FRAMES I.B. TO W.T. FLAT	148, 154
S11-81-B	" " W.T. FLAT TO 3RD DK.	" "
S11-96	CHAIN LOCKER	11, 12, 13 & 14
S11-243	MSCL. BHD.S BELOW 3RD DK.	
S11-247	WEB FRAMES 3RD DK. TO 2ND DK.	148, 154 & 160

(31)

ORDER DEPARTMENT

YARD PRINTS & ORDERS BILLS & ORDERS
PRINTS
REMARKS
DATE SIGNED

2.2.44 CB-JSB HE AHP TS ML 2/25/4 HE 2AH AHP 4ML 4FN TS WE 4FS PD	ABS 30S RH EH 3SW 3/15/44 2EH 3/20/44 Martin 4ML 4FN 4FS TS WE	PD ABS 30S RH EH 4SW HE 3AH AHP 4/5/44 7 Martin 4/13/44 HE 3AH AHP	4ML 4FN 4FS TS WE PD ABS 30S RH EH 3SW	4/29/4 4ML 4FN 4FS TS WE PD ABS 30S RH EH 4SW HE 2AH AHP	6/28 HE 2AH AHP 4ML 4FN 4FS TS WE PD ABS 30S RH EH 4SW	7/4/44 HE 2AH AHP 4ML 4FN 4FS TS WE PD ABS 30S RH EH 4SW MAIL NY	7/7/4 4FN 10/1/44 HE 2AH AHP 4ML 4FN 4FS TS WE PD ABS 30S RH EH 4SW NN NY		

GROUP:

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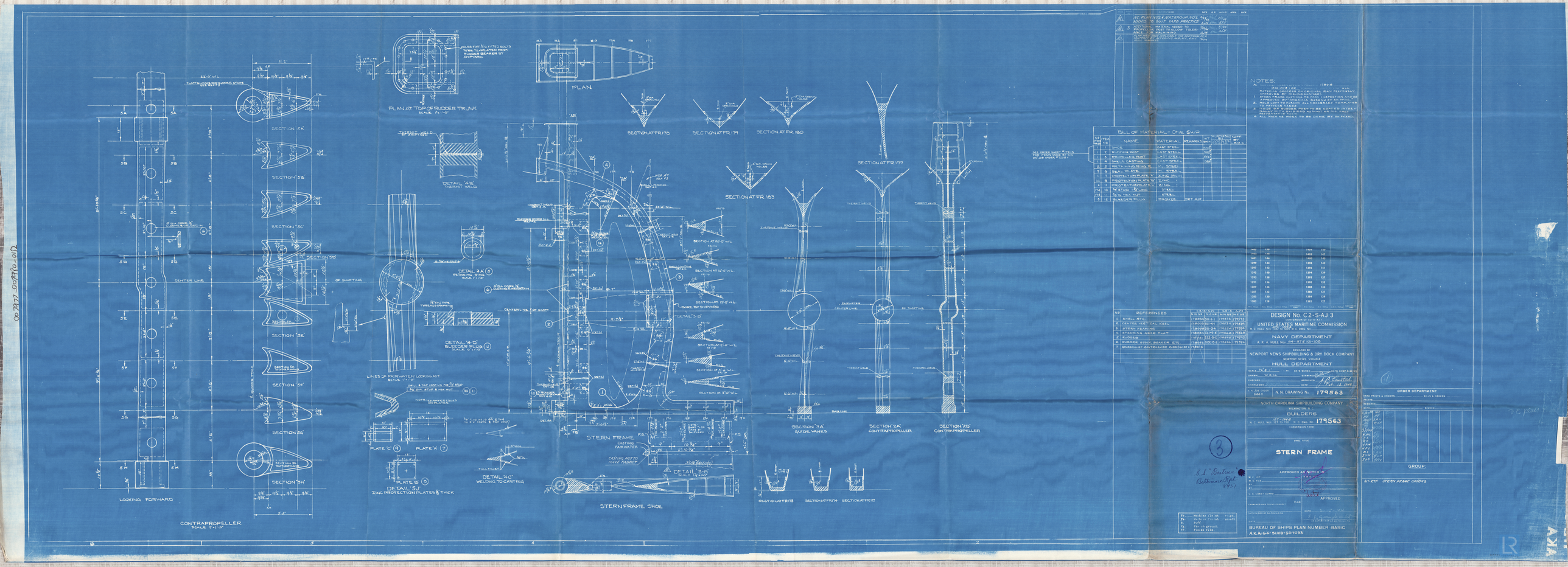


NO.	REVISIONS	BY	APP.	DATE
4	PC PLASTIGLAS PATTERSHOP NOS. 3999, 4000 & 4001 ADDED TO SUIT MAR. PRACTICE	J.K.		7/7/54
3	ADDITIONAL MATERIAL ADDED TO ALLOW FOR MACHINING FOLLOWING WELDING	J.K.		5/24/54
2	ALL DIMENSIONS ARE APPROXIMATE FOR PATTERN PLAN ONLY. FINISHED MACHINED DIMENSIONS TO BE SHOWN ON MACHINE SHOP PLANS	J.K.		3/1/54
1				

BILL OF MATERIAL - ONE SHIP

NO. ITEMS PER SHIP	NO.	NAME	MATERIAL	REMARKS	WT. PER UNIT LBS.	WT. PER SHIP LBS.
1	1	SHOE	CAST STEEL		9600	
1	2	RUDDON POST	CAST STEEL		7200	
1	3	PROPELLER POST	CAST STEEL		7200	
1	4	SHELL CASTING	CAST STEEL		1800	
3	5	WELDING STRIPS	CAST STEEL			
1	6	SEAL PLATE	CAST STEEL			
1	7	PROTECTION PLATE 'A'	ZINC			
1	8	PROTECTION PLATE 'B'	ZINC			
1	9	PROTECTION PLATE 'C'	ZINC			
14	10	1¼" STUD & NUT	STEEL			
174	11	¾" DIA. RIVET	STEEL			
3	12	BLEEDER PLUG	BRONZE	DET 4-D		

NO.	REFERENCES	NAVSHIPS STOCK NO.	NAVSHIPS DRAWING NO.
1	SHELL ETC.	780308(31)-111	179573
2	CENTER VERTICAL KEEL	780308(31)-6	179579
3	STERN FRAMING	780308(31)-34	179584
4	STEADYING GEAR PLAT.	780308(31)-69	179568
5	RUDDER	780308 322-04	179592
6	RUDDER STOCK, BRACES ETC.	780308 322-01	179591
7	GRADING OF CONTAINER FOR ITEMS	78310	

NOTES:

A. ALL CASTINGS TO BE MADE OF MATERIAL MEETING THE REQUIREMENTS OF SPECIFICATION 78008 (31)-1 (A).

1. ALL CASTINGS TO BE MADE IN ORIGINAL PATTERNS OF APPROVED DESIGN.
2. ALL CASTINGS TO BE SUBJECTED TO RADIOGRAPHIC AND MAGNETIC INSPECTION AND/OR ULTRASONIC INSPECTION AS DIRECTED BY REPRESENTATIVE OF THE BUREAU OF SHIPS.
3. ALL CASTINGS TO BE SUBJECTED TO HYDROSTATIC TEST AS REQUIRED BY SPECIFICATION.
4. ALL CASTINGS TO BE SUBJECTED TO MAGNETIC PARTICLE INSPECTION AS DIRECTED BY REPRESENTATIVE OF THE BUREAU OF SHIPS.
5. ALL CASTINGS TO BE SUBJECTED TO ULTRASONIC INSPECTION AS DIRECTED BY REPRESENTATIVE OF THE BUREAU OF SHIPS.
6. ALL CASTINGS TO BE SUBJECTED TO RADIOGRAPHIC INSPECTION AS DIRECTED BY REPRESENTATIVE OF THE BUREAU OF SHIPS.
7. ALL CASTINGS TO BE SUBJECTED TO MAGNETIC PARTICLE INSPECTION AS DIRECTED BY REPRESENTATIVE OF THE BUREAU OF SHIPS.
8. ALL CASTINGS TO BE SUBJECTED TO ULTRASONIC INSPECTION AS DIRECTED BY REPRESENTATIVE OF THE BUREAU OF SHIPS.
9. ALL CASTINGS TO BE SUBJECTED TO RADIOGRAPHIC INSPECTION AS DIRECTED BY REPRESENTATIVE OF THE BUREAU OF SHIPS.
10. ALL CASTINGS TO BE SUBJECTED TO MAGNETIC PARTICLE INSPECTION AS DIRECTED BY REPRESENTATIVE OF THE BUREAU OF SHIPS.
11. ALL CASTINGS TO BE SUBJECTED TO ULTRASONIC INSPECTION AS DIRECTED BY REPRESENTATIVE OF THE BUREAU OF SHIPS.
12. ALL CASTINGS TO BE SUBJECTED TO RADIOGRAPHIC INSPECTION AS DIRECTED BY REPRESENTATIVE OF THE BUREAU OF SHIPS.
13. ALL CASTINGS TO BE SUBJECTED TO MAGNETIC PARTICLE INSPECTION AS DIRECTED BY REPRESENTATIVE OF THE BUREAU OF SHIPS.
14. ALL CASTINGS TO BE SUBJECTED TO ULTRASONIC INSPECTION AS DIRECTED BY REPRESENTATIVE OF THE BUREAU OF SHIPS.
15. ALL CASTINGS TO BE SUBJECTED TO RADIOGRAPHIC INSPECTION AS DIRECTED BY REPRESENTATIVE OF THE BUREAU OF SHIPS.
16. ALL CASTINGS TO BE SUBJECTED TO MAGNETIC PARTICLE INSPECTION AS DIRECTED BY REPRESENTATIVE OF THE BUREAU OF SHIPS.
17. ALL CASTINGS TO BE SUBJECTED TO ULTRASONIC INSPECTION AS DIRECTED BY REPRESENTATIVE OF THE BUREAU OF SHIPS.
18. ALL CASTINGS TO BE SUBJECTED TO RADIOGRAPHIC INSPECTION AS DIRECTED BY REPRESENTATIVE OF THE BUREAU OF SHIPS.
19. ALL CASTINGS TO BE SUBJECTED TO MAGNETIC PARTICLE INSPECTION AS DIRECTED BY REPRESENTATIVE OF THE BUREAU OF SHIPS.
20. ALL CASTINGS TO BE SUBJECTED TO ULTRASONIC INSPECTION AS DIRECTED BY REPRESENTATIVE OF THE BUREAU OF SHIPS.

1900	150	1600	140
1901	149	1601	139
1902	148	1602	138
1903	147	1603	137
1904	146	1604	136
1905	145	1605	135
1906	144	1606	134
1907	143	1607	133
1908	142	1608	132
1909	141	1609	131
1910	140	1610	130
1911	139	1611	129
1912	138	1612	128
1913	137	1613	127

DESIGN No. C2-S-AJ 3
CONSTRUCTED FOR
UNITED STATES MARITIME COMMISSION
W.C. SHIP No. 1901 N.C. SHIP No.
NAVY DEPARTMENT
A. & A. HULL No. 64-AT# 101-105
CONSTRUCTED BY
NEWPORT NEWS SHIPBUILDING & DRY DOCK COMPANY
NEWPORT NEWS, VIRGINIA
HULL DEPARTMENT
SCALE 1"=1'-0" 1 PT. DATE SIGNED 7/7/54
DRAWN M.B.N. EXAMINED
CHECKED APPROVED
CHARGE NO. DATE
N.N. JOB ORDER NO. 644 V
N.N. DRAWING No. 179563
NORTH CAROLINA SHIPBUILDING COMPANY
WILMINGTON, N.C.
BUILDERS
N.C. HULL No. 157-158 N.C. Ship No. 179563
CONVERSION YARD
DWG. TITLE
STERN FRAME
APPROVED AS NOTED ON
M.C. V.C.
M.C. FOR
M.C.
U.S. COAST GUARD APPROVED
PLAN
CLASSIFICATION AND FOUND CORRECT
DATE
CERTIFICATE OF REGISTRY No.
DATE
BUREAU OF SHIPS PLAN NUMBER BASIC
AKA G4-S1103-507033

ORDER DEPARTMENT
SEND PRINTS & ORDERS TO BILLS & ORDERS TO
REMARKS
DATE BUILDER

7/7/54	MT	7/7/54	MT
7/7/54	MT	7/7/54	MT
7/7/54	MT	7/7/54	MT
7/7/54	MT	7/7/54	MT
7/7/54	MT	7/7/54	MT
7/7/54	MT	7/7/54	MT
7/7/54	MT	7/7/54	MT
7/7/54	MT	7/7/54	MT
7/7/54	MT	7/7/54	MT
7/7/54	MT	7/7/54	MT
7/7/54	MT	7/7/54	MT
7/7/54	MT	7/7/54	MT
7/7/54	MT	7/7/54	MT
7/7/54	MT	7/7/54	MT

GROUP:
SII-27 STERN FRAME CASTING

Pf... Machine finish all over.
Pc... Machine finish all over.
Pg... Finish grind.
Ff... Finish file.

S. S. Beatrice Baltimore Dpt. 8751

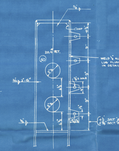
(3)

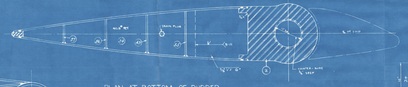
(4)

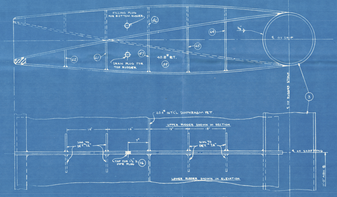
(1)

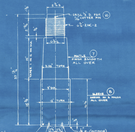
(2)

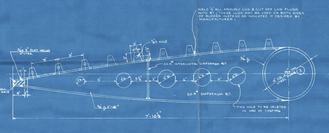
USCG 2277-0047A-0.0

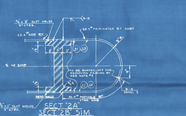


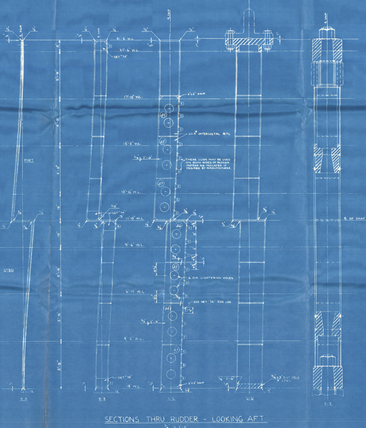


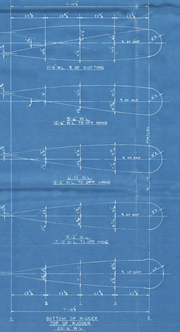


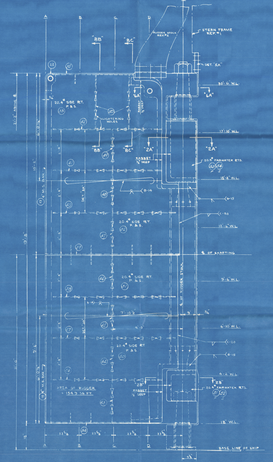












NO.	REVISIONS	BY	DATE	APP'D
1	NO PLAN NOS. P-GROUP NOS. ADDED TO SUIT BASIS PRACTICE			
2	PLAN NOS. REVISED TO SUIT BASIS PRACTICE			

BILL OF MATERIAL - ONE SHIP

ITEM NO.	QUAN. PER SHIP	NAME	MATERIAL	REMARKS	WT.
1	1	UPPER RUDDER FRAME	CAST STEEL		
2	1	LOWER RUDDER FRAME	CAST STEEL		
3	1	STEEL TUBE	STEEL		
4	1	GUDGEON BUSHING	STEEL CASTING		
5	1	PINTLE NUT	STEEL		
6	1	PINTLE	STEEL		
7	1	PINTLE SLEEVE	CAST STEEL		
8	1	PINTLE KEY	STEEL		
9	1	RUDDER PIN	BRONZE		
10	1	RUDDER PIN	BRONZE		
11	1	GUDGEON BUSHING	CAST STEEL		
12	16	RUDDER LIFTING STOP	STEEL		
13	16	STOP BOLT NUTS	BRONZE		
14	16	STOP BOLT NUTS	STEEL		
15	16	STOP BOLT NUTS	BRONZE		
16	16	STOP BOLTS	STEEL		
17	1	STEEL BAR (LONG SLEEVE)	ST. STEEL		
18	1	STEEL BAR (SHORT SLEEVE)	ST. STEEL		
19	16	STEEL	STEEL		
20	1	RUDDER PLATES	CAST STEEL		
21	1	STEEL BAR (SHORT SLEEVE)	ST. STEEL		
22	1	STEEL BAR (SHORT SLEEVE)	ST. STEEL		

NOTE: ITEMS MARKED * TO BE FURNISHED BY BUILDER

NUMBER	REFERENCES	SIZE OF SHEETS
1	SYSTEM PLANS	11"x17"
2	MISCELLANEOUS SYSTEMS SHOPPING PLANS	11"x17"

NOTES:
A. ALL WELDING SHALL BE IN ACCORDANCE WITH THE RULES FOR WELDING OF THE AMERICAN BUREAU OF SHIPPING.
B. ALL WELDING SHALL BE DONE BY WELDERS QUALIFIED BY THE AMERICAN BUREAU OF SHIPPING.
C. ALL WELDING SHALL BE INSPECTED BY AN INSPECTOR APPROVED BY THE AMERICAN BUREAU OF SHIPPING.
D. ALL WELDS SHALL BE MADE BY MANUAL ARC WELDING PROCESS.
E. ALL WELDS SHALL BE CONTINUOUS AND SHALL BE FREE FROM CRACKS, UNDERCUTTING, OVERLAPPING, POROSITY, SLAG INCLUSIONS, AND OTHER DEFECTS.
F. ALL WELDS SHALL BE MADE IN ACCORDANCE WITH THE WELDING PROCEDURE SPECIFICATIONS.

1003	126	1060	187
1004	126	1061	187
1005	126	1062	187
1006	126	1063	187
1007	126	1064	187
1008	126	1065	187
1009	126	1066	187
1010	126	1067	187
1011	126	1068	187
1012	126	1069	187
1013	126	1070	187

DESIGN No. C2-S-AJ 3
NEWPORT NEWS SHIPBUILDING & DRY DOCK COMPANY
UNITED STATES MARITIME COMMISSION
C. NOS. MC-30 TO MC-41 INCL.
NAVY DEPARTMENT
A. B. A. HULL No. 0-5-47 & MC-1001 TO MC-1004 INCL.

BUILDER
NEWPORT NEWS SHIPBUILDING & DRY DOCK COMPANY
NEWPORT NEWS, VIRGINIA
HULL DEPARTMENT

DATE OF CONTRACT: 1-15-43
DATE KEEL LAID: 1-15-43
DATE DELIVERED: 1-15-43
CONTRACT No. NOBS-1001

DATE OF: N.N. DRAWING No. 179585

NORTH CAROLINA SHIPBUILDING COMPANY
WILMINGTON, N. C.
BUILDERS

C. NOS. MC-30 TO MC-41 INCL. & Hull No. 179595
CONTRACT No. NOBS-1001

RUDDER
DWG. TITLE

APPROVED AS NOTED ON
DATE
U.S.M.C.
BY
U.S.N.
U.S. COAST GUARD

APPROVED
DATE
BUREAU OF SHIPS

BUREAU OF SHIPS PLAN NUMBER BASIC
AAA-44-SE2-001-801070

ORDER DEPARTMENT
DATE RECEIVED & ENTERED
DATE WANTED
DATE COMPLETED
GROUP
ITEM OF RUDDER

8 7 6 5 4 3 2 1